

SECTION

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DIVISIONS 81 & 82



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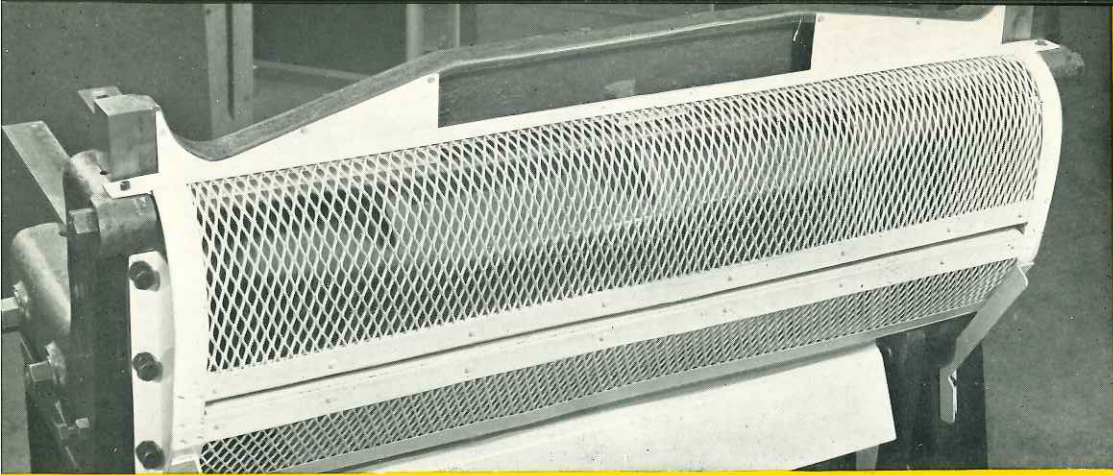
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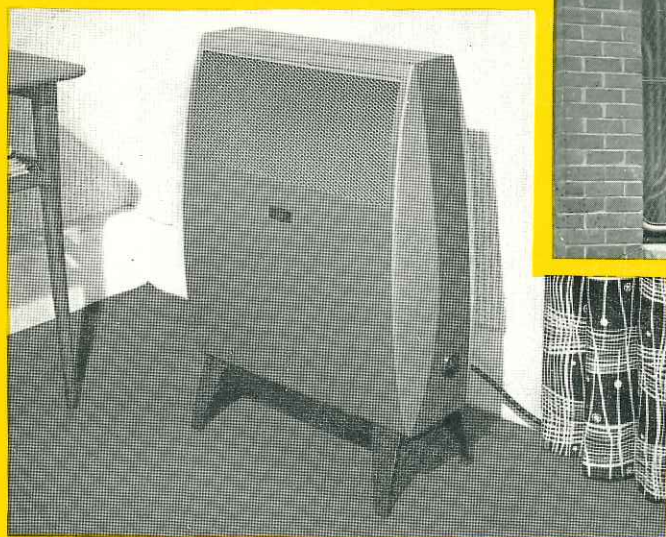
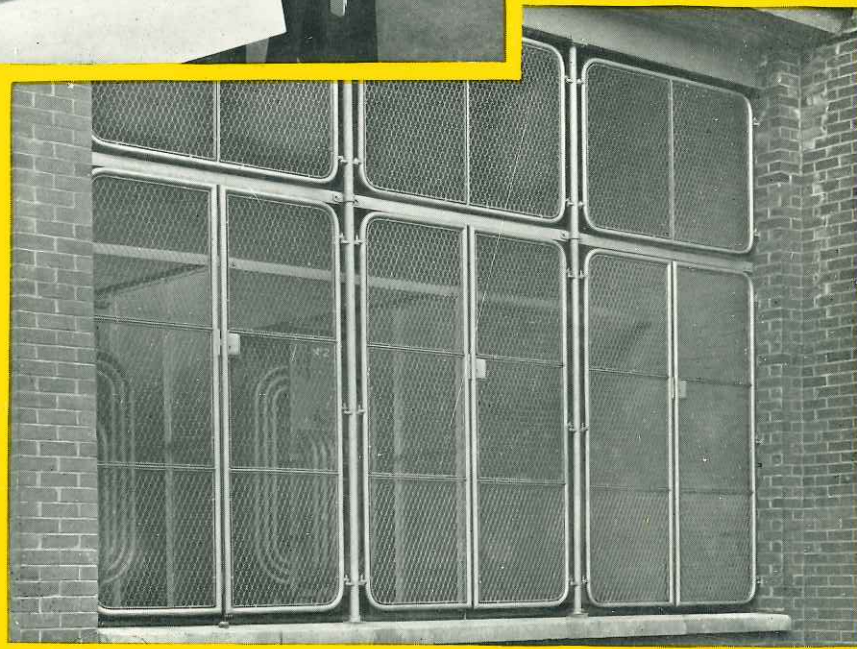
Details of Meshes manufactured by

THE EXPANDED METAL COMPANY LIMITED

LONDON & WEST HARTLEPOOL



Div 81



Div. 81

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Expamet

EXPANDED STEEL

Technical information and advice on the use of the Company's products is freely available.

We shall be pleased to help you

with expert advice on the choice and use of 'Expamet' Expanded Steel.

WHAT IT IS

Expanded Steel is an extremely versatile material. It was first produced in England by The Expanded Metal Company Ltd., more than 60 years ago and is now used in every branch of engineering. It is made by slitting and expanding rolled sheet steel into a metal meshwork sheet of remarkable strength.

The inherent strength lies in the unity of the strands. They are all part of one piece of metal and consequently are all rigidly connected without any joins, hinges, welds or any other artificial connections.

Other metals such as stainless steel, aluminium, brass, copper, can also be expanded and full information will be supplied on request. In this book details of "Expamet" Expanded Steel only are given.

VARIETY OF MESHES & STRANDS

The standard sizes of meshes manufactured vary from $\frac{1}{16}$ " to $4\frac{1}{2}$ ". The mesh is always known by the nominal measurement shortway of the diamond.

In each size of mesh a large number of variations can be manufactured by using different thickness of plate or sheet and changing the width of the strand. It is possible, therefore, to produce a gradation of meshes and weights unique in metal fabrics.

GENERAL PURPOSE MESHES

(See pages 3 to 7)

Most requirements can be met from the comparatively small range of General Purpose Meshes in the Table of Properties on page 3.

Whenever possible it is better to select a suitable mesh size and weight from this Table because adequate

quantities of standard size sheets are either kept in stock or can be manufactured and dispatched quickly.

STANDARD RANGE

(See pages 10 to 15)

It should only be necessary to consult the Tables on pages 10 to 15 when the General Purpose Range does not provide a material suitable for a proposed application. These tables give details of the full range of standard variations in mesh and strand sizes.

SPECIAL PURPOSE MESHES

In cases where neither the General Purpose Range nor the Standard Range meet requirements, the Company is always prepared to investigate the possibilities of making other variations should the demand justify special production arrangements.

FLATTENED 'EXPAMET'

Many meshes can be flattened by rolling the strands and junctions of the meshes into the same plane in the sheet to give a smooth, flat surface. Brief details will be found on pages 8 and 9.

SELECTION OF MESH

The selection of the best size of mesh and weight of Expanded Metal for any purpose is usually a simple matter. In most instances the user will make his own selection in accordance with his knowledge and experience of the job in hand.

The Company is, however, always ready to advise and recommend if full details of the proposed use are stated.

STOCK SIZES OF SHEETS

The General Purpose Meshes and Flattened "Expamet" are kept in stock and are readily available from our Depots in London, Birmingham, Manchester and West Hartlepool.

The sizes of sheets kept in stock are given in the respective tables on pages 3 and 8.

STANDARD SIZES OF SHEETS

Sizes of sheets shown against each List Reference Number in all tables throughout this book, are standard sizes. The sheets are not sheared after manufacture and are always slightly oversize. Only the net area is charged for however.

NON-STANDARD SIZE SHEETS

Non-standard sizes of sheets within certain manufacturing and transportation limits can be supplied.

The largest dimension longway of mesh given for each Reference Number in the tables on pages 10 to 15 is the maximum, but larger or smaller sizes shortway of mesh can be manufactured. Full details will be sent on request.

Sheets can also be cut to special sizes if required.

BENDING & SPECIAL CUTTING

Sheets bent to shape or cambered to radius, cut into special shapes or circles, can be supplied.

BRUSHING & FINISHING

The General Purpose Meshes and Flattened "Expamet" are brushed to remove burrs and rough edges. They are normally supplied with a protective coating of oil, otherwise "Expamet" Expanded Steel is uncoated but can be supplied Dip Painted Red Oxide Primer or Black Bituminous Paint, Hot Dip Galvanised or Electro-Galvanised.

Special finishes such as Spray Painting, Stove Enamelling, Cadmium, Tin or Chromium Plating and Plastic Coating are all possible methods of finishing.

OTHER METALS

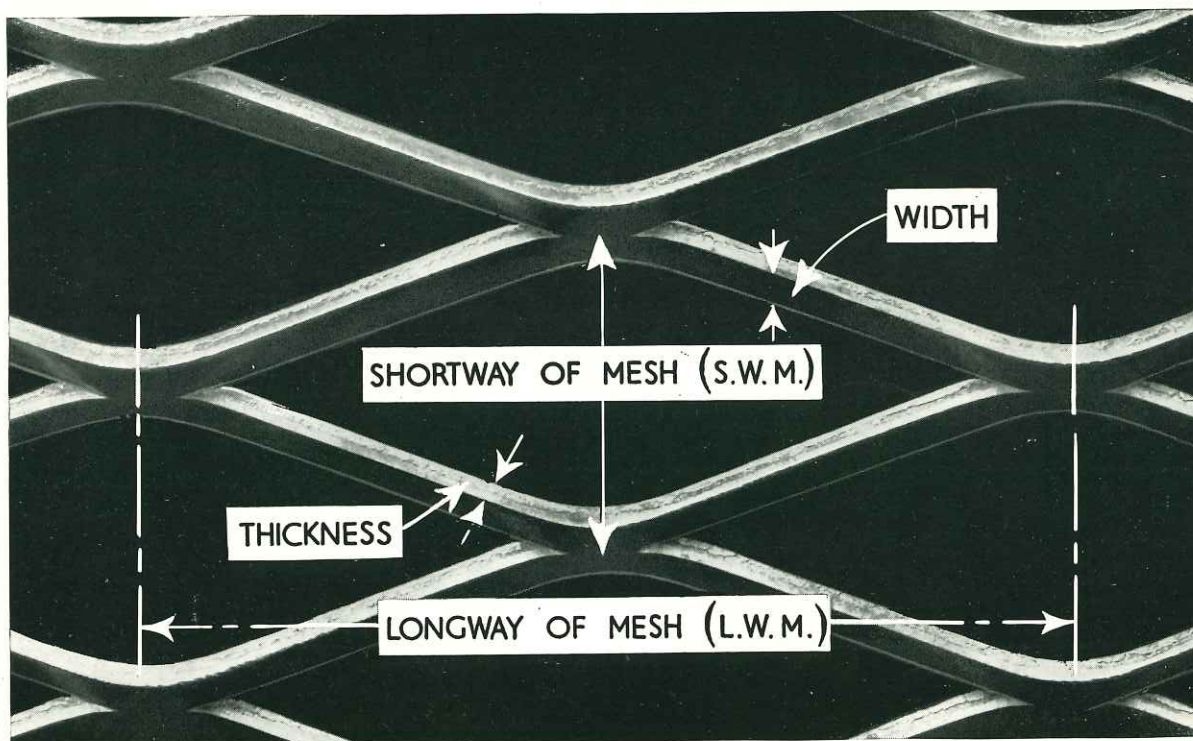
Mild Steel, Stainless Steel, Aluminium, Brass and Copper are commonly expanded.

Many other metals are expanded for special purposes, among them being—Zinc, Lead, Silver, Gold, Tantalum, Platinum.

ORDERING PROCEDURE

Always state clearly the List Reference Number, Quantity and Size of sheets required and which dimension is to be in the direction of the Longway of the Mesh.

When ordering Expanded Metal, the longway of mesh dimension of the sheet should always be stated first (see next page).



'EXPAMET' EXPANDED STEEL GENERAL PURPOSE MESHES

From Stock

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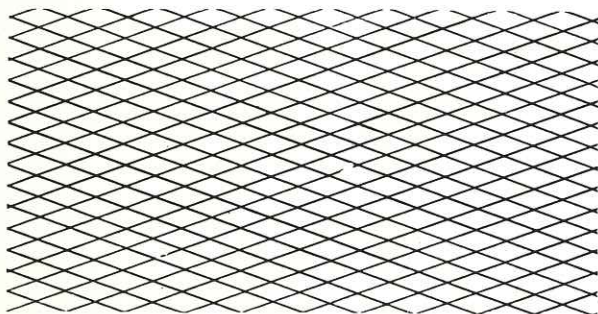
U. S. PATENT OFFICE

LIST REFERENCE NUMBER	NOMINAL SIZE OF MESH	NOMINAL WEIGHT PER SQ. FT.	NOMINAL DIMENSIONS OF STRANDS		APPROX. SIZE OF OPENINGS		% OF OPEN AREA *	STANDARD AND STOCK SIZES OF SHEETS LWM × SWM
			WIDTH	THICKNESS BG	LWM in.	SWM in.		
220	$\frac{1}{16}$ "	·45 lbs.	·031"	24G	$\frac{1}{8}$	$\frac{3}{32}$	42	4' × 2'
1018	$\frac{1}{8}$ "	·67 lbs.	·046"	20G	$\frac{3}{8}$	$\frac{1}{8}$	57	4' × 3'
1532	$\frac{5}{32}$ "	·66 lbs.	·065"	20G	$\frac{9}{16}$	$\frac{3}{16}$	70	8' × 4' and 6' × 3'
2014	$\frac{1}{4}$ "	·55 lbs.	·065"	20G	$\frac{7}{8}$	$\frac{1}{4}$	61	} 8' × 4' and 6' × 3'
1014		·84 lbs.	·078"	18G	$\frac{7}{8}$	$\frac{1}{4}$	61	
1038	$\frac{3}{8}$ "	·81 lbs.	·093"	18G	$\frac{27}{32}$	$\frac{5}{16}$	62	} 8' × 4' and 6' × 3'
2038		1·03 lbs.	·093"	16G	$\frac{13}{16}$	$\frac{5}{16}$	60	
25		·55 lbs.	·093"	20G	$1\frac{3}{8}$	$\frac{7}{16}$	69	
2		·69 lbs.	·093"	18G	$1\frac{3}{8}$	$\frac{7}{16}$	70	
42		1·06 lbs.	·119"	16G	$1\frac{5}{16}$	$\frac{3}{8}$	75	
142	$\frac{1}{2}$ "	·53 lbs.	·091"	18G	$1\frac{3}{16}$	$\frac{1}{2}$	73	} 8' × 4' and 6' × 3'
1012		·70 lbs.	·091"	16G	$1\frac{3}{16}$	$\frac{1}{2}$	71	
146		·93 lbs.	·122'	16G	$1\frac{3}{16}$	$\frac{7}{16}$	56	
1034	$\frac{3}{4}$ "	·40 lbs.	·089"	18G	$1\frac{11}{16}$	$\frac{3}{4}$	82	} 8' × 4' and 6' × 3'
2034		·79 lbs.	·125"	16G	$1\frac{11}{16}$	$\frac{3}{4}$	74	
4034		·90 lbs.	·099"	12G	$1\frac{11}{16}$	$\frac{3}{4}$	74	
3034		1·36 lbs.	·123"	$\frac{1}{8}$ "	$1\frac{9}{16}$	$\frac{11}{16}$	66	
1100	1"	·70 lbs.	·099"	12G	$2\frac{3}{8}$	1	81½	} 8' × 4' and 6' × 3'
126		1·08 lbs.	·121"	$\frac{1}{8}$ "	$2\frac{3}{8}$	1	80	
3032	$1\frac{1}{2}$ "	·53 lbs.	·099"	12G	$2\frac{3}{4}$	$1\frac{3}{8}$	85	} 8' × 4' and 6' × 3'
1032		·80 lbs.	·125"	$\frac{1}{8}$ "	$2\frac{3}{4}$	$1\frac{3}{8}$	84	

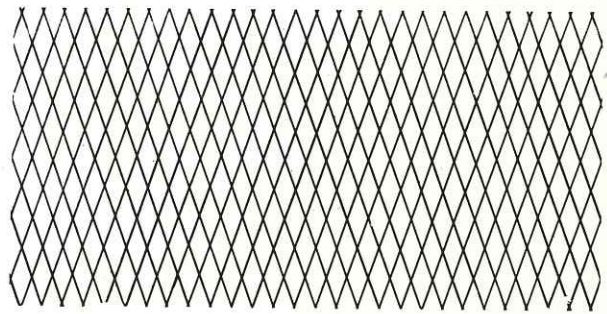
LWM=LONGWAY OF MESH

SWM=SHORTWAY OF MESH

*When the plane of the sheet is at right angles to the line of vision.



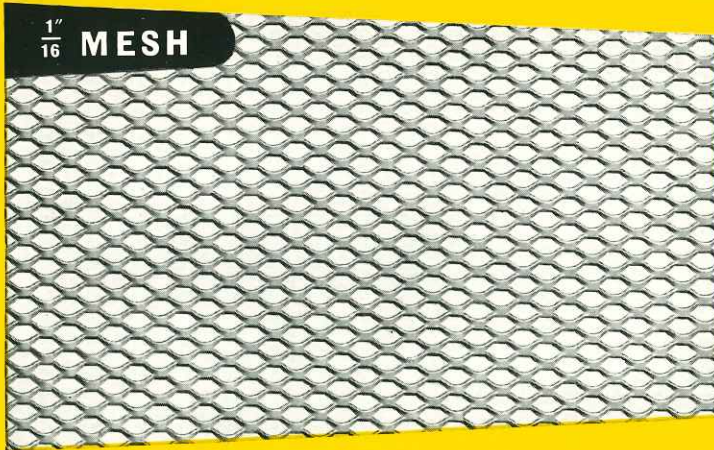
This sheet is 8' 0" LWM × 4' 0" SWM



This sheet is 4' 0" LWM × 8' 0" SWM

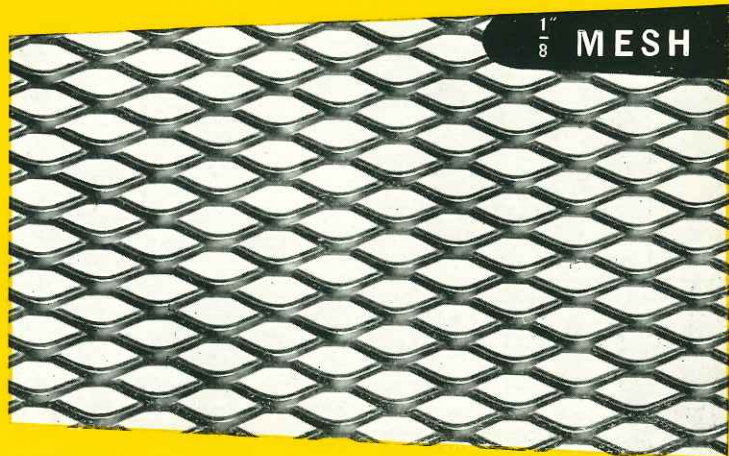
SEE PAGES 10 TO 15 FOR TABLES OF THE STANDARD RANGE OF "EXPAMET" EXPANDED STEEL

MESHERS FROM STOCK



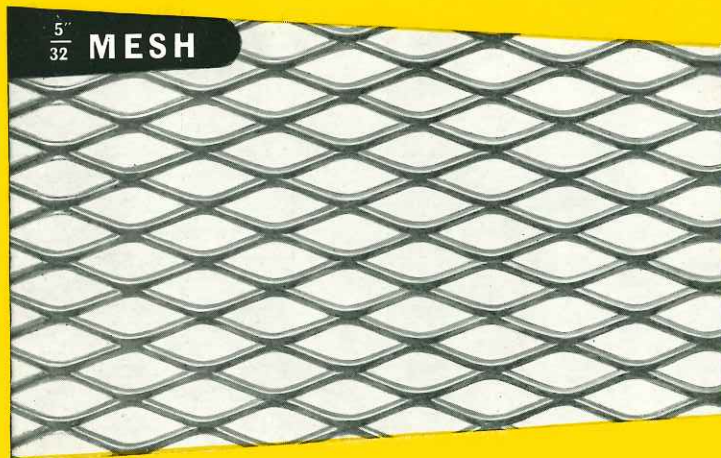
Ref. No. 220 1/16" Mesh (Actual size)

Standard and stock sizes of sheets
 4' 0" LWM × 2' 0" SWM



Ref. No. 1018 1/8" Mesh (Actual size)

Standard and stock sizes of sheets
 4' 0" LWM × 3' 0" SWM



Ref. No. 1532 5/32" Mesh (Actual size)

Standard and stock sizes of sheets
 8' 0" LWM × 4' 0" SWM
 6' 0" LWM × 3' 0" SWM

Some of the many uses for these Meshes.

FILTERS • AIR FILTRATION AND
 WATER COOLING PLANT • BENZOLE
 WASHING • PIPE LINE STRAINERS
 ELECTRICAL SCREENING
 HOUSEHOLD GOODS

See page 15 for details of the standard range.

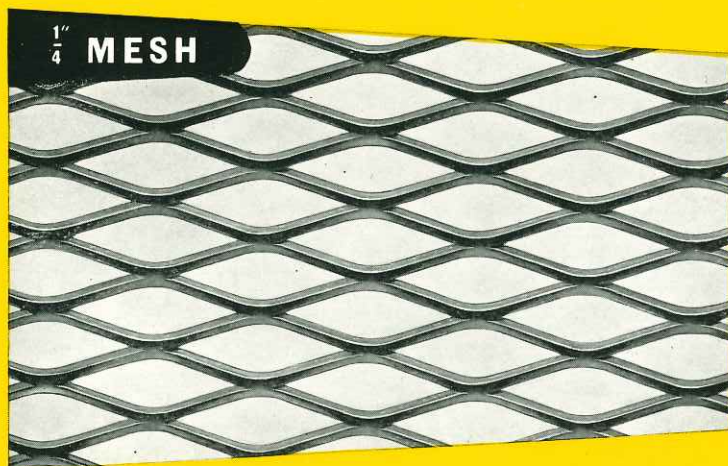
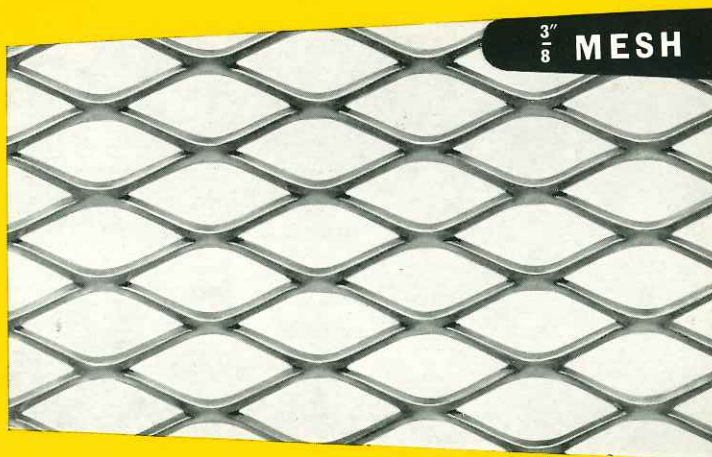
LIST REF. NO.	SIZE OF MESH	WEIGHT PER SQ. FOOT	STRANDS	
			WIDTH	THICKNESS
			ins.	
220	$\frac{1}{16}$ "	·45 lbs.	·031	24G
1018	$\frac{1}{8}$ "	·67 lbs.	·046	20G
1532	$\frac{5}{32}$ "	·66 lbs.	·065	20G

LWM = Longway of Mesh SWM = Shortway of Mesh

MESHES FROM STOCK

Ref. No. 1038 3/8" Mesh (Actual size)

Standard and stock sizes of sheets
 8' 0" LWM × 4' 0" SWM and
 6' 0" LWM × 3' 0" SWM

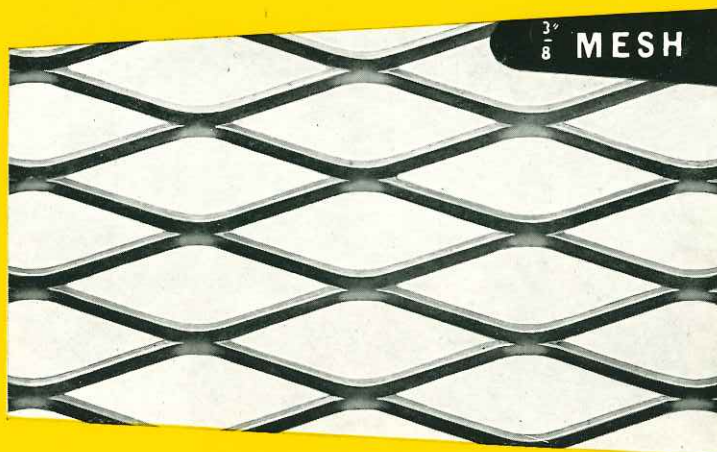


Ref. No. 1014 1/4" Mesh (Actual size)

Standard and stock sizes of sheets
 8' 0" LWM × 4' 0" SWM
 and 6' 0" LWM × 3' 0" SWM

Ref. No. 2 3/8" Mesh (Actual size)

Standard and stock sizes of sheets
 8' 0" LWM × 4' 0" SWM
 and 6' 0" LWM × 3' 0" SWM



LIST REF. NO.	SIZE OF MESH	WEIGHT PER SQ. FOOT	STRANDS	
			WIDTH	THICKNESS
			ins.	
1014 } 2014 }	1/4"	·84 lbs.	·078	18G
		·55 lbs.	·065	20G
1038 } 2038 }	3/8"	·81 lbs.	·093	18G
25 }		1·03 lbs.	·093	16G
2 }		·55 lbs.	·093	20G
42 }		·69 lbs.	·093	18G
		1·06 lbs.	·119	16G

LWM = Longway of Mesh

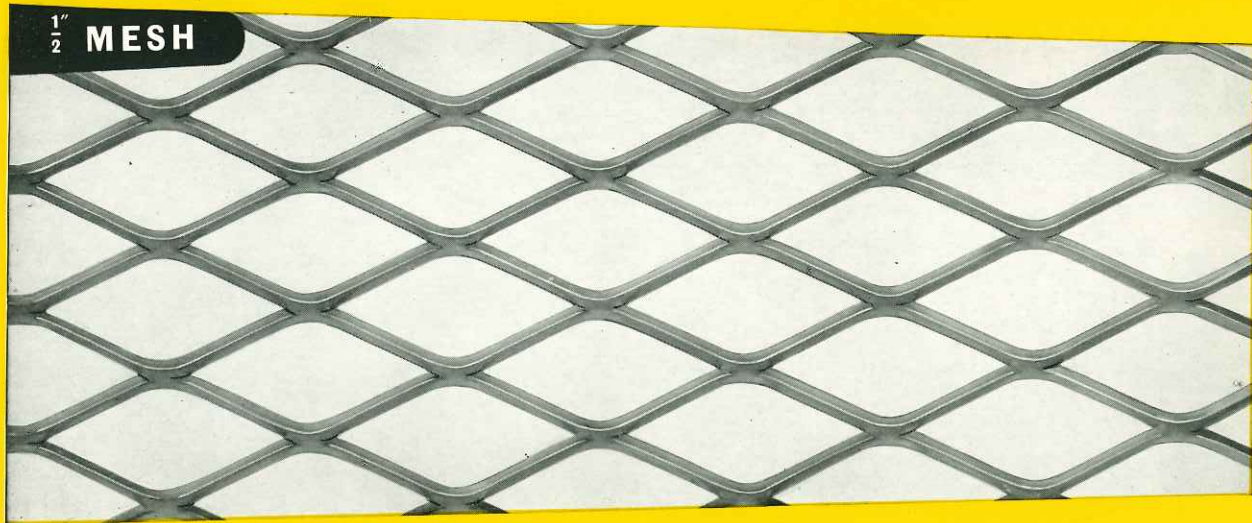
SWM = Shortway of Mesh

Some of the many uses for these Meshes.

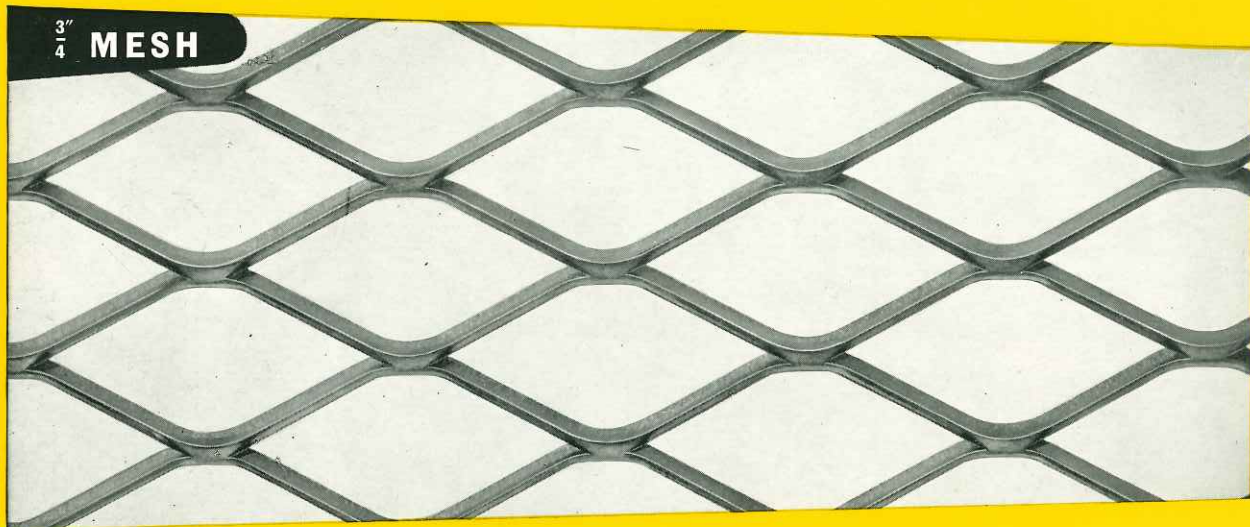
VENTILATING PANELS · GUARDS TO ELECTRIC
 HEATERS · MOTOR CAR RADIATORS · GRILLES
 PUMP FILTERS · SWITCHBOARD ENCLOSURES
 AIR FILTRATION WATER COOLING PLANT
 LOCKERS · MACHINERY GUARDS

See page 14 for details of the standard range.

MESHES FROM STOCK



Ref. No. 1012, 1/2" Mesh (Actual size). *Standard and stock sizes of sheets*
8' 0" LWM × 4' 0" SWM and 6' 0" LWM × 3' 0" SWM



Ref. No. 4034, 3/4" Mesh (Actual size). *Standard and stock sizes of sheets*
8' 0" LWM × 4' 0" SWM and 6' 0" LWM × 3' 0" SWM

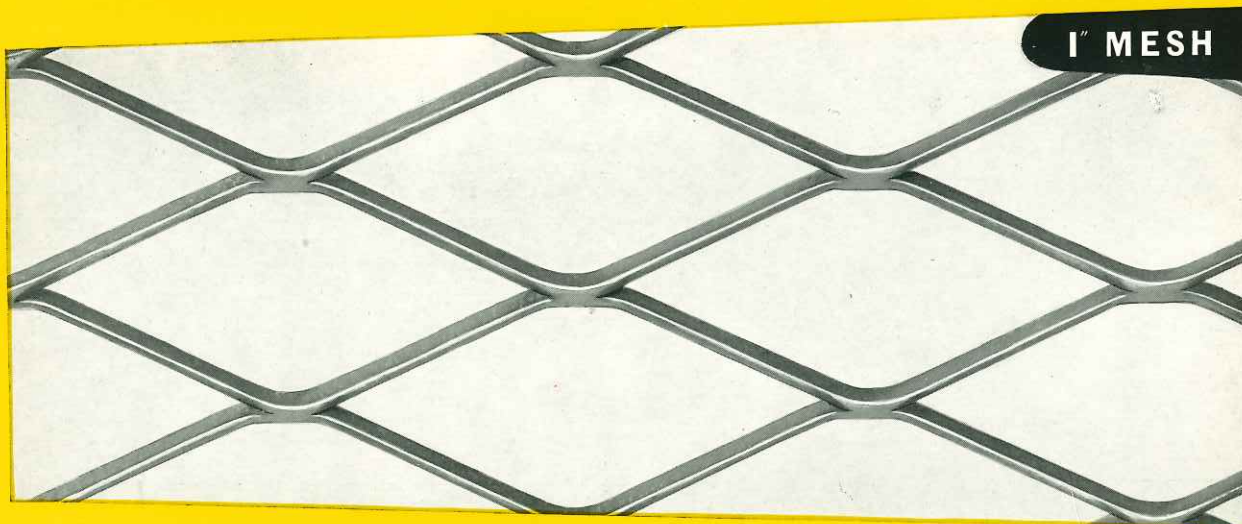
Some of the many uses for these Meshes.

SWITCHBOARD ENCLOSURES • VERMIN PROOF
PROTECTION IN BUILDINGS, SHIPS, ETC.
MACHINERY GUARDS • OPENWORK PANELS
AND PARTITIONS • COAL AND COKE SCREEN-
ING PLANT • WINDOW GUARDS • TREE
GUARDS • LITTER BASKETS • DRYING RACKS

See page 13 for details of the standard range.

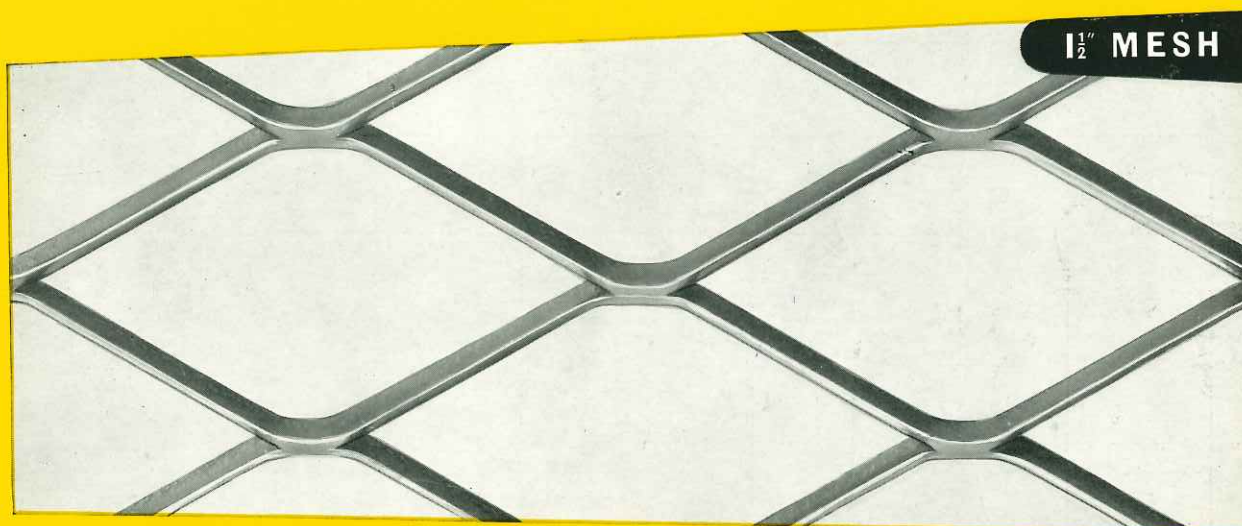
LIST REF. NO.	SIZE OF MESH	WEIGHT PER SQ. FOOT	STRANDS	
			WIDTH	THICKNESS
			ins.	
142	1/2"	.53 lbs.	.091	18G
1012		.70 lbs.	.091	16G
146		.93 lbs.	.122	16G
1034	3/4"	.40 lbs.	.089	18G
2034		.79 lbs.	.125	16G
4034		.90 lbs.	.099	12G
3034		1.36 lbs.	.123	1/8"
LWM = Longway of Mesh		SWM = Shortway of Mesh		

MESHES FROM STOCK



1" MESH

Ref. No. 1100, 1" Mesh (Actual size). *Standard and stock sizes of sheets*
 8' 0" LWM × 4' 0" SWM and 6' 0" LWM × 3' 0" SWM



1½" MESH

Ref. No. 1032, 1½" Mesh (Actual size). *Standard and stock sizes of sheets*
 8' 0" LWM × 4' 0" SWM and 6' 0" LWM × 3' 0" SWM

LIST REF. NO.	SIZE OF MESH	WEIGHT PER SQ. FOOT	STRANDS	
			WIDTH	THICKNESS
1100	1"	·70 lbs.	ins.	12G
126		1·08 lbs.	·099	
			·121	$\frac{1}{8}$ "
3032	1½"	·53 lbs.	·099	12G
1032		·80 lbs.	·125	
				$\frac{1}{8}$ "

LWM = Longway of Mesh SWM = Shortway of Mesh

Some of the many uses for these Meshes.

PARTITIONS AND ENCLOSURES · FENCING
 GATES · MACHINERY GUARDS · SCREENS
 SHELVES AND RACKS IN STORES · CATTLE
 STALLS

See pages 12 & 13 for details of the standard range.

FLATTENED 'EXPAMET' EXPANDED STEEL

From Stock

FLATTENED 'EXPAMET' is made by brushing and pressure-rolling the strands and junctions of Expanded Metal to obtain a smooth flat surface. It is strong, rigid and light in weight: has the attractive appearance of the regular diamond - shaped meshes, and is perfectly

smooth and free from burrs. The gauge or thickness of the sheet used is slightly reduced by the process of flattening, and the size of opening also varies to a small degree according to the variations in width of strand.

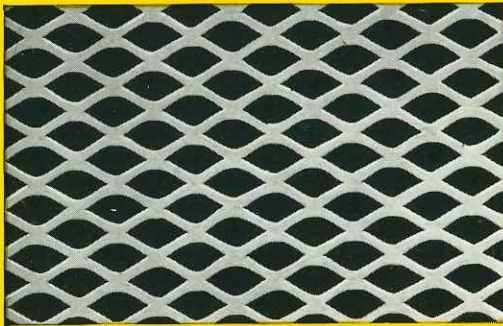
Supplied with a protective coating of oil.

TABLE OF PROPERTIES							
List Ref. No.	Approximate size of mesh opening		Approximate size of strands		Approx. No. of meshes in 1 ft. run SWM	Nominal Weight in lb. per sq. foot	Nominal sizes of Standard and Stock Sheets
	SWM	LWM	Width	Thickness of steel used BG			
1801	$\frac{5}{32}$ "	$\frac{9}{32}$ "	$\frac{3}{64}$ "	20G	48	.55	LWM SWM LWM SWM 4' 0" × 8' 0" & 3' 0" × 6' 0"
5321	$\frac{3}{16}$ "	$\frac{9}{16}$ "	.07"	20G	37	.67	
3801	$\frac{1}{4}$ "	1"	$\frac{3}{32}$ "	18G	27	.80	8' 0" × 4' 0" & 6' 0" × 3' 0"
3802	$\frac{1}{4}$ "	1"	$\frac{1}{8}$ "	16G	25	1.20	
1201	$\frac{1}{2}$ "	1 $\frac{1}{4}$ "	$\frac{3}{32}$ "	18G	18	.50	
1203	$\frac{3}{8}$ "	1 $\frac{1}{4}$ "	$\frac{1}{8}$ "	16G	18	.85	
3403	$\frac{5}{8}$ "	1 $\frac{7}{8}$ "	$\frac{1}{8}$ "	16G	14	.75	
3404	$\frac{5}{8}$ "	1 $\frac{7}{8}$ "	$\frac{3}{32}$ "	18G	13	.40	
7801	$\frac{3}{4}$ "	1 $\frac{3}{4}$ "	$\frac{3}{16}$ "	$\frac{1}{8}$ "	11	1.70	4' 0" × 8' 0" & 3' 0" × 6' 0"
3202	1 $\frac{1}{8}$ "	3"	$\frac{3}{16}$ "	16G	8	.65	8' 0" × 4' 0" & 6' 0" × 3' 0"
3204	1"	3"	$\frac{1}{4}$ "	$\frac{1}{8}$ "	8	1.65	
3205	1 $\frac{1}{2}$ "	2 $\frac{7}{8}$ "	$\frac{3}{16}$ "	12G	6.45	.82	4' 0" × 8' 0" & 3' 0" × 6' 0"
LWM = Longway of Mesh. SWM = Shortway of Mesh.							

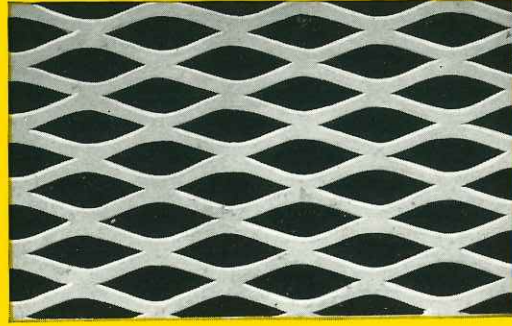
Applications for Flattened 'Expamet' include: Guards—for machinery, windows, radiators, ventilators, fires, etc; drying shelves and trays, shelves for refrigerators; racks; pallets and stillages; baskets for frying and dipping; litter containers; storage bins; sterilizing trays and

baskets; openwork panels, partitions, etc; cable trays; lockers; lift shaft surrounds; air filters; backing for insulation materials; poultry cages and crates; animal cages; parcel racks; duckboards; decorative trays and tables, and many others.

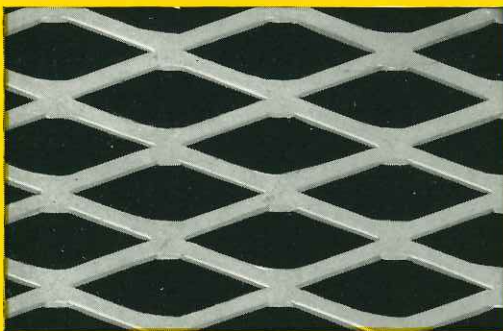
ACTUAL SIZE ILLUSTRATIONS OF FLATTENED 'EXPAMET'



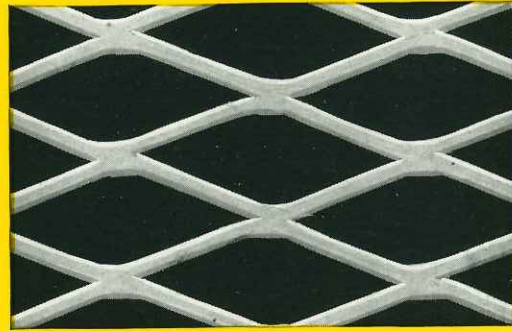
No. 1801



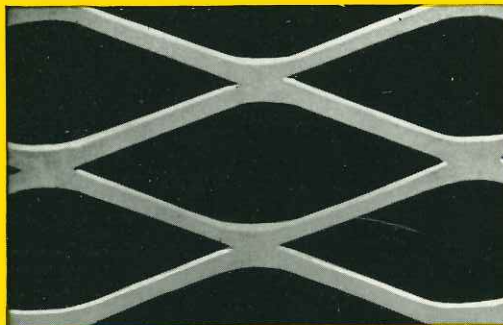
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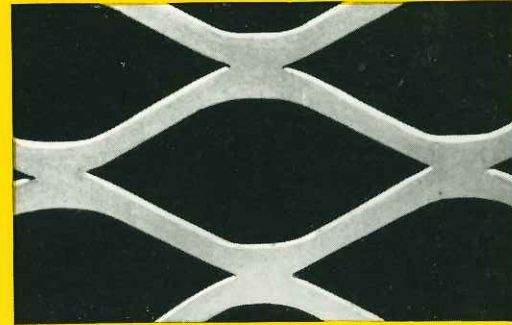
No. 3801



No. 1201



No. 3403



No. 7801



No. 3205

'EXPAMET' EXPANDED STEEL 4½ in. MESH

Tables of Standard Range

List Ref. No.	B.S. Ref. No.	Dimensions of Strands		Nominal Weight in lbs. per Square Yard	Calculated Sectional Area in sq. in. per Foot Run S.W.M.	Tensional value for Foot Run S.W.M. at 25,000 lb. per sq. inch in the Strand
		Width in.	Thickness Bare in.			
301	330	$\frac{1}{8}$	$\frac{1}{8}$	2.50	.083	1,765
302	329	$\frac{3}{16}$	$\frac{1}{8}$	3.80	.125	2,655
303		$\frac{15}{64}$	$\frac{1}{8}$	4.78	.156	3,315
304	328	$\frac{1}{4}$	$\frac{1}{8}$	5.10	.167	3,550
305		$\frac{7}{32}$	$\frac{3}{16}$	6.69	.219	4,655
306	327	$\frac{1}{4}$	$\frac{3}{16}$	7.65	.250	5,310
307	326	$\frac{19}{64}$	$\frac{3}{16}$	8.93	.291	6,185
308	325	$\frac{1}{4}$	$\frac{1}{4}$	10.20	.333	7,075
309		$\frac{9}{32}$	$\frac{1}{4}$	11.48	.375	7,965
310	324	$\frac{5}{16}$	$\frac{1}{4}$	12.75	.416	8,840
311		$\frac{11}{32}$	$\frac{1}{4}$	14.00	.458	9,732
312	323	$\frac{3}{8}$	$\frac{1}{4}$	15.30	.500	10,625
313		$\frac{13}{32}$	$\frac{1}{4}$	16.50	.541	11,495
314	322	$\frac{7}{16}$	$\frac{1}{4}$	17.84	.583	12,390
315		$\frac{15}{32}$	$\frac{1}{4}$	19.13	.625	13,280
316	321	$\frac{1}{2}$	$\frac{1}{4}$	20.40	.666	14,150
317		$\frac{9}{16}$	$\frac{1}{4}$	22.95	.750	15,940

LWM = LONGWAY OF MESH

SWM = SHORTWAY OF MESH

NOTE: The stress on the sectional area given in Col. 6 is 85% of the stress in the strands. Sizes of Sheets: Standard Lengths (L.W.M.) are 16 ft. 0 in., 12 ft. 0 in. and 8 ft. 0 in. Standard widths (S.W.M.) are 7 ft. 0 in., 6 ft. 0 in. and 4 ft. 0 in. Other sizes of sheets and weights of reinforcement can be supplied within certain manufacturing and transport limits. The lighter weights of 4½ in. mesh can be supplied in rolls if required.

Reinforcement for Concrete: Footings to walls, Foundation rafts, walls, floors, stairs, etc.; Culverts, dams, marine works, reservoirs, swimming baths, tanks, water towers, wharves, etc.

'EXPAMET' EXPANDED STEEL 3 in. MESH

Tables of Standard Range

List Ref. No.	B.S. Ref. No.	Dimensions of Strands		Nominal Weight in lbs. per Square Yard	Calculated Sectional Area in sq. in. per Foot Run S.W.M.	Tensional value for Foot Run S.W.M. at 25,000 lb. per sq. inch in the Strand
		Width in.	Thickness Bare in. or B.G.			
69	341	$\frac{1}{2}$	$\frac{1}{4}$	30.60	1.000	21,250
85	342	$\frac{7}{16}$	$\frac{1}{4}$	26.78	.875	18,595
68	343	$\frac{3}{8}$	$\frac{1}{4}$	22.95	.750	15,940
84		.32	$\frac{1}{4}$	20.08	.656	13,940
86	344	$\frac{5}{16}$	$\frac{1}{4}$	19.13	.625	13,280
30	345	.28	$\frac{1}{4}$	17.21	.562	11,940
31	346	$\frac{1}{4}$	$\frac{1}{4}$	15.30	.500	10,625
62		$\frac{5}{16}$	$\frac{3}{16}$	14.34	.469	9,965
83	347	$\frac{9}{32}$	$\frac{3}{16}$	12.91	.422	8,965
10	348	$\frac{1}{4}$	$\frac{3}{16}$	11.48	.375	7,970
82		.23	$\frac{3}{16}$	10.52	.344	7,310
61	349	.21	$\frac{3}{16}$	9.56	.312	6,630
11	350	$\frac{3}{16}$	$\frac{3}{16}$	8.61	.281	5,970
8	351	$\frac{1}{4}$	$\frac{1}{8}$	7.65	.250	5,310
81		$\frac{7}{32}$	$\frac{1}{8}$	6.69	.219	4,655
9	352	$\frac{3}{16}$	$\frac{1}{8}$	5.74	.187	3,975
80		$\frac{5}{32}$	$\frac{1}{8}$	4.78	.156	3,315
15	353	$\frac{1}{8}$	$\frac{1}{8}$	3.83	.125	2,655
7		$\frac{1}{4}$	16G	3.83	.125	2,655
67		$\frac{3}{16}$	16G	2.87	.094	1,995

LWM = LONGWAY OF MESH

SWM = SHORTWAY OF MESH

NOTE: The stress on the sectional area given in Col. 6 is 85% of the stress in the strands.
 Sizes of Sheets: Standard Lengths (L.W.M.) are 16 ft. 0 in., 12 ft. 0 in. and 8 ft. 0 in. Standard widths (S.W.M.) are 7 ft. 0 in., 6 ft. 0 in. and 4 ft. 0 in. Other sizes of sheets and weights of reinforcement can be supplied within certain manufacturing and transport limits.

Reinforcement for Concrete: Footings to walls, Foundation rafts, walls, floors, stairs, etc.; Culverts, dams, marine works, reservoirs, swimming baths, tanks, water towers, wharves, etc. Also used for fencing.

'EXPAMET' EXPANDED STEEL 2in. & 1.1/2in. MESH

Tables of Standard Range

List Reference No.	Dimensions of Strands		Nominal Weight per Sq. Yard	Calculated Sectional Area per Foot Run S.W.M.	Safe Tensional Value per Foot Run S.W.M. (at 20,000 lb. per Sq. Inch)	Standard Sizes of Sheets	
	Width	Thickness Bare				L.W.M.	S.W.M.
2" MESH	in.	in. or B.G.	lb.	sq. in.	lb.		
112	$\frac{3}{8}$	$\frac{3}{16}$	21.50	.703	14,050	8', 7' or 6' x 6', 4' or 3'	
111	$\frac{5}{16}$	$\frac{3}{16}$	17.93	.586	11,720	8', 7' or 6' x 6', 4' or 3'	
110	$\frac{1}{4}$	$\frac{3}{16}$	14.35	.469	9,375	8', 7' or 6' x 6', 4' or 3'	
109	$\frac{3}{16}$	$\frac{3}{16}$	10.75	.351	7,030	8', 7' or 6' x 6', 4' or 3'	
108	$\frac{5}{16}$	$\frac{1}{8}$	11.95	.390	7,810	8', 7' or 6' x 6', 4' or 3'	
107	$\frac{1}{4}$	$\frac{1}{8}$	9.56	.312	6,250	8', 7' or 6' x 6', 4' or 3'	
106	$\frac{3}{16}$	$\frac{1}{8}$	7.34	.234	4,690	8', 7' or 6' x 6', 4' or 3'	
104	$\frac{1}{8}$	$\frac{1}{8}$	4.78	.156	3,125	8', 7' or 6' x 6', 4' or 3'	
102	$\frac{1}{8}$	16G	2.34	.078	1,560	8', 7' or 6' x 6', 4' or 3'	
101	$\frac{3}{32}$	16G	1.76	.058	1,170	8', 7' or 6' x 6', 4' or 3'	
100	$\frac{3}{32}$	18G	1.44	.046	930	8', 7' or 6' x 6', 4' or 3'	
1.1/2" MESH							
71	$\frac{3}{8}$	$\frac{3}{16}$	32.30	1.125	22,500	16', 12', 8' or 6' x 8', 5' or 4'	
72	$\frac{5}{16}$	$\frac{3}{16}$	27.00	.937	18,750	16', 12', 8' or 6' x 6' or 4'	
34	$\frac{1}{4}$	$\frac{3}{16}$	20.60	.750	15,000	16', 12', 8' or 6' x 8', 6' or 4'	
23	$\frac{1}{4}$	$\frac{1}{8}$	14.35	.500	10,000	16', 12', 8' or 6' x 6', 5' or 4'	
21	$\frac{3}{16}$	$\frac{1}{8}$	11.05	.375	7,500	16', 12', 8' or 6' x 8', 5' or 4'	
24	$\frac{1}{8}$	$\frac{1}{8}$	7.37	.250	5,000	16', 12', 8' or 6' x 8', 6', 4' or 3'	
35	$\frac{1}{4}$	16G	7.16	.250	5,000	8', 7' or 6' x 4' or 3'	
22	$\frac{3}{16}$	16G	5.56	.187	3,750	8', 7' or 6' x 4' or 3'	
6	$\frac{1}{8}$	16G	3.67	.125	2,500	8', 7' or 6' x 4' or 3'	
70	$\frac{3}{32}$	16G	2.79	.094	1,875	8', 7' or 6' x 4' or 3'	
5	$\frac{3}{32}$	18G	2.26	.074	1,485	8', 7' or 6' x 4' or 3'	

LWM = Longway of Mesh SWM = Shortway of Mesh

The many uses for 2" and 1½" Meshes include: Reinforcing Concrete Encasement to Steelwork and Precast Concrete Work; Partitions and Enclosures; Fencing and Gates; Machinery Guards; Screens; the heavier 1½" Mesh weights are used for Openwork Flooring and Walkways.

For meshes available from stock
see page 3 for details of the
General Purpose Range.

See page 2 for
note on Non-Standard size sheets.

'EXPAMET' EXPANDED STEEL 1in., 3/4in. & 1/2in. MESH

Tables of Standard Range

List Reference No.	Dimensions of Strands		Nominal Weight per Square Yard	Calculated Sectional Area per Foot Run S.W.M.	Standard Sizes of Sheets	
	Width	Thickness Bare			L.W.M.	S.W.M.
1" MESH	in.	in. or B.G.	lb.	sq. in.		
128	$\frac{3}{16}$	$\frac{1}{8}$	14.65	.492	16', 12', 8' or 6' x 6', 4' or 3' 8', 7' or 6' x 4' or 3' 8', 7' or 6' x 4' or 3' 8', 7' or 6' x 4' or 3' 8', 7' or 6' x 4' or 3' 8', 7' or 6' x 4' or 3'	
124	$\frac{3}{16}$	16G	7.33	.246		
123	$\frac{1}{8}$	16G	4.78	.164		
122	$\frac{3}{32}$	16G	3.69	.123		
121	$\frac{3}{32}$	18G	2.92	.097		
120	$\frac{3}{32}$	20G	2.29	.077		
3/4" MESH						
77	$\frac{1}{4}$	$\frac{3}{16}$	33.00		8', 7' or 6' x 8', 5' or 4' 16', 12', 8' or 6' x 6', 4' or 3' 16' or 12' x 7', 6', 4' or 3' 8', 7' or 6' x 4' or 3' 8', 7' or 6' x 4' or 3' 8', 7' or 6' x 4' or 3' 8', 7' or 6' x 4' or 3' 8', 7' or 6' x 4' or 3' 8', 7' or 6' x 4' or 3' 8', 7' or 6' x 4' or 3'	
36	$\frac{3}{16}$	$\frac{1}{8}$	17.60			
20	$\frac{1}{8}$	$\frac{1}{8}$	12.20			
37	$\frac{1}{4}$	16G	11.00			
73	$\frac{3}{16}$	16G	9.29			
19	$\frac{1}{8}$	16G	6.22			
4	$\frac{3}{32}$	16G	4.63			
18	$\frac{3}{32}$	18G	3.78			
3	$\frac{3}{32}$	20G	3.00			
38	$\frac{3}{32}$	24G	1.89			
1/2" MESH						
145	$\frac{1}{8}$	18G	6.59		8', 7' or 6' x 4' or 3' 8', 7' or 6' x 4' or 3' 8', 7' or 6' x 4' or 3' 8', 7' or 6' x 4' or 3'	
144	$\frac{1}{8}$	20G	5.21			
141	$\frac{3}{32}$	20G	4.20			
140	$\frac{3}{32}$	22G	3.39			

LWM = Longway of Mesh

SWM = Shortway of Mesh

The many uses for 1", $\frac{3}{4}$ " and $\frac{1}{2}$ " Meshes include: *Partitions and Enclosures; Fencing and Gates; Machinery Guards; Screens; Window Guards; Tree Guards; Litter Baskets; Drying Racks; No. 77 $\frac{3}{4}$ " Mesh is used for Openwork Flooring and Walkways.*

For meshes available from stock see page 3 for details of the General Purpose Range.

See page 2 for note on Non-Standard size sheets.

'EXPAMET' EXPANDED STEEL 3/8in. & 1/4in. MESH

Tables of Standard Range

List Reference No.	Dimensions of Strands		Nominal Weight per Square Yard	Standard Sizes of Sheets	
	Width	Thickness Bare		L.W.M.	S.W.M.
3/8" MESH	in.	B.G.	lb.		
39	$\frac{1}{4}$	16G	16.74	8', 7' or 6' x 5' or 4'	
40	$\frac{3}{16}$	16G	14.30	8', 7' or 6' x 5' or 3'	
41	$\frac{5}{32}$	16G	12.55	8', 7' or 6' x 5' or 3'	
17	$\frac{3}{32}$	16G	7.35	8', 7' or 6' x 4' or 3'	
63	$\frac{1}{4}$	18G	13.35	8', 7' or 6' x 4'	
43	$\frac{3}{16}$	18G	11.32	8', 7' or 6' x 3'	
44	$\frac{5}{32}$	18G	9.93	8', 7' or 6' x 3'	
45	$\frac{1}{8}$	18G	8.14	8', 7' or 6' x 3'	
64	$\frac{1}{4}$	20G	10.50	8', 7' or 6' x 5' or 4'	
46	$\frac{3}{16}$	20G	8.96	8', 7' or 6' x 3'	
47	$\frac{5}{32}$	20G	7.86	8', 7' or 6' x 3'	
48	$\frac{1}{8}$	20G	6.60	8', 7' or 6' x 4' or 3'	
49	$\frac{3}{32}$	22G	3.74	8', 7' or 6' x 5' or 3'	
1/4" MESH					
50	$\frac{1}{4}$	16G	21.00	8', 7' or 6' x 4' or 3'	
51	$\frac{3}{16}$	16G	17.60	8', 7' or 6' x 5' or 4'	
52	$\frac{5}{32}$	16G	16.12	8', 7' or 6' x 4'	
53	$\frac{1}{8}$	16G	13.39	8', 7' or 6' x 5'	
28	$\frac{3}{32}$	16G	10.94	8', 7' or 6' x 4' or 3'	
65	$\frac{1}{4}$	18G	16.66	8', 7' or 6' x 4' or 3'	
54	$\frac{3}{16}$	18G	14.15	8', 7' or 6' x 4'	
55	$\frac{5}{32}$	18G	12.75	8', 7' or 6' x 4'	
56	$\frac{1}{8}$	18G	10.60	8', 7' or 6' x 5'	
27	$\frac{3}{32}$	18G	8.65	8', 7' or 6' x 4' or 3'	
66	$\frac{1}{4}$	20G	13.50	8', 7' or 6' x 4' or 3'	
57	$\frac{3}{16}$	20G	11.67	8', 7' or 6' x 4'	
58	$\frac{5}{32}$	20G	10.48	8', 7' or 6' x 5' or 4'	
59	$\frac{1}{8}$	20G	8.39	8', 7' or 6' x 5'	
29	$\frac{3}{32}$	20G	6.85	8', 7' or 6' x 4' or 3'	
60	$\frac{3}{32}$	22G	5.46	8', 7' or 6' x 4' or 3'	

LWM = Longway of Mesh SWM = Shortway of Mesh

The $\frac{3}{8}$ " and $\frac{1}{4}$ " Meshes have many uses including: *Grilles and Vents for convector heaters and similar purposes, filters, pipe line strainers, benzole washing, air filtration and water cooling plant, electrical screening and household articles of various kinds.*

For meshes available from stock
see page 3 for details of the
General Purpose Range.
See page 2 for
note on Non-Standard size sheets.

'EXPAMET' EXPANDED STEEL 1/8 in. & 1/16 in. MESH

Tables of Standard Range

List Reference No.	Dimensions of Strands		Nominal Weight per Square Yard	Standard Sizes of Sheets	
	Width	Thickness Bare		L.W.M.	S.W.M.
	in.	B.G.	lb.		
1/8" MESH					
210	$\frac{3}{64}$	18G	.91		4' x 3' or 2'
209	$\frac{1}{16}$	20G	.92		4' x 3' or 2'
208	$\frac{3}{64}$	20G	.67		4' x 3' or 2'
207	$\frac{1}{16}$	22G	.74		4' x 3' or 2'
206	$\frac{3}{64}$	22G	.55		4' x 3' or 2'
205	$\frac{1}{16}$	24G	.58		4' x 3' or 2'
204	$\frac{3}{64}$	24G	.44		4' x 3' or 2'
203	$\frac{1}{32}$	24G	.29		4' x 3' or 2'
1/16" MESH					
221	$\frac{3}{64}$	24G	.70		4' x 2'
223	$\frac{1}{16}$	24G	.95		4' x 2'

LWM = Longway of Mesh SWM = Shortway of Mesh

The $\frac{1}{16}$ " and $\frac{1}{8}$ " Meshes have many uses including: *Grilles and Vents for convector heaters and similar purposes, filters, pipe line strainers, benzole washing, air filtration and water cooling plant, electrical screening and household articles of various kinds.*

For meshes available from stock
see page 3 for details of the
General Purpose Range.

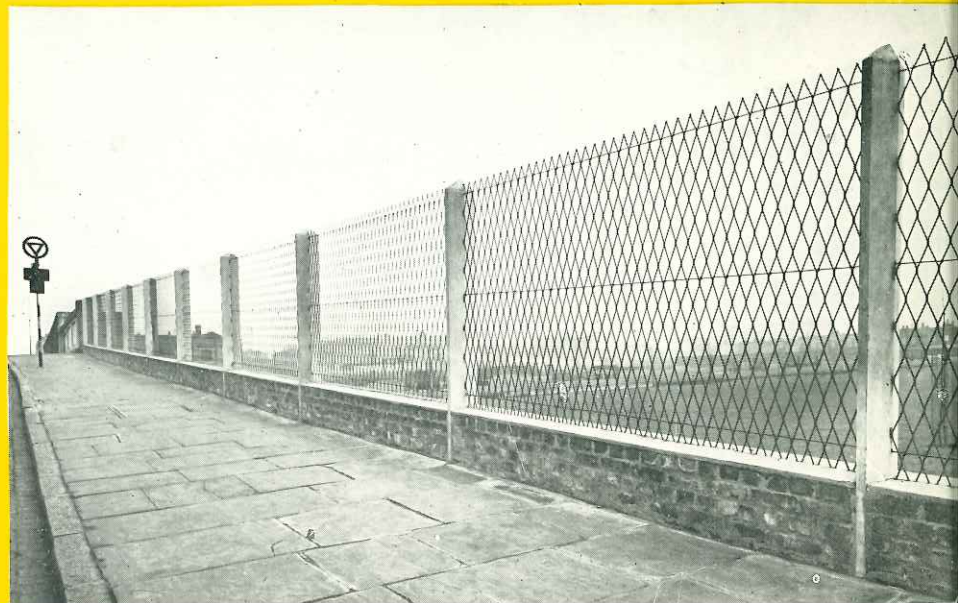
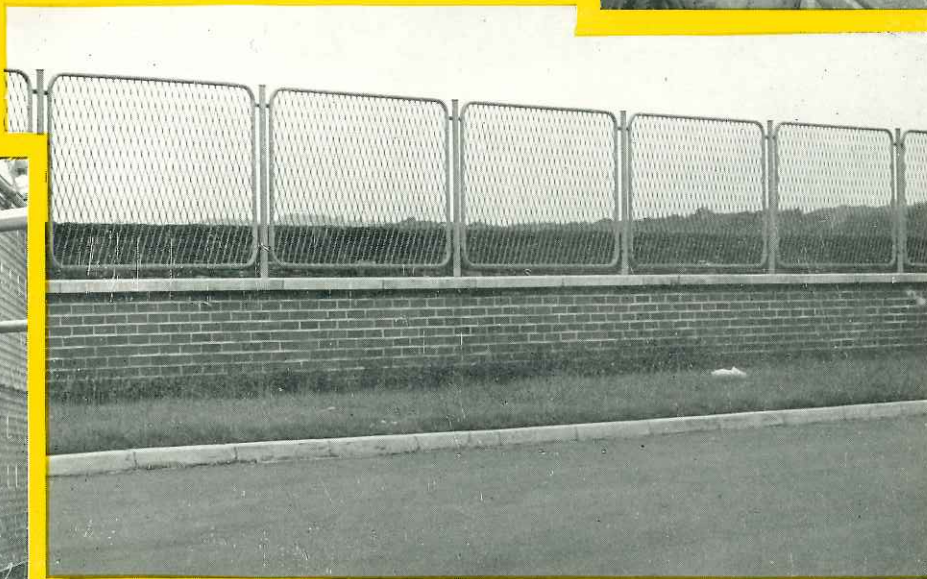
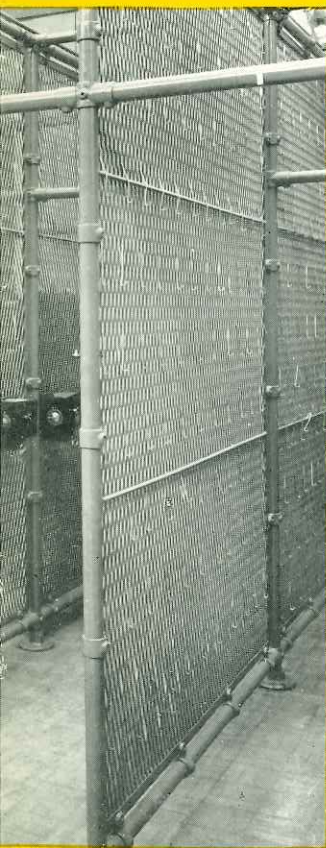
See page 2 for
note on Non-Standard size sheets.

‘U’ SECTIONS (MILD STEEL)

Mild Steel ‘U’ sections for framing “Expamet” Expanded Steel and Flattened “Expamet” are supplied to the following standard details:—

	SECTIONS	Approx. weight per foot linear	Standard length	Suitable for framing
 A B	A $1\frac{1}{2}" \times 11G \times \frac{3}{8}"$ Gap B $1\frac{1}{2}" \times 16G \times \frac{3}{8}"$ Gap	oz. 20 $10\frac{1}{4}$	ft. in. 10 0 and 8 0	“Expamet” Expanded Steel with strand widths of $\frac{3}{16}"$ (0.187") or under
 C D	C $1" \times 11G \times \frac{3}{8}"$ Gap D $1" \times 16G \times \frac{3}{8}"$ Gap	14 7	10 0 and 8 0	“Expamet” Expanded Steel with strand widths of $\frac{3}{16}"$ (0.187") or under
 E	E $\frac{3}{4}" \times 16G \times \frac{3}{8}"$ Gap	$4\frac{1}{2}$	10 0 and 8 0	“Expamet” Expanded Steel with strand widths of $\frac{3}{16}"$ (0.187") or under
 F	F $\frac{1}{2}" \times 20G \times \cdot 07"$ Gap	2	8 2 and 6 2	Flattened “Expamet” (up to and including 16G thick)
 G H	G $1\frac{1}{4}" \times 17G \times \cdot 07"$ Gap	8	8 2 and 6 2	Flattened “Expamet” (up to and including 16G thick)
	H $1\frac{1}{4}" \times 17G \times \cdot 13"$ Gap	8	8 2 and 6 2	Flattened “Expamet” (over 16G thick)

After cutting the “U” sections to length and inserting the “Expamet” Sheets, they can be pressed down on to the “Expamet” to hold it rigidly in position. The ends of the “U” sections can be mitred and the corners of the framing welded before pressing down on to the “Expamet”.



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